● PRINTER RUSH ●
(PTO ASSISTANCE)

Application :	10/078,111	Examiner :	D. MALZAHN	GAU :	2193
From:	R. Mitchell	Location:	(IDC) FMF FDC	Date:	1/19/06

Tracking #: EPm 10/078,111   Week Date: 7/18/05

DOC CODE	DOC DATE	MISCELLANEOUS
☐ 1449	_____	☐ Continuing Data
☐ IDS	_____	☐ Foreign Priority
☐ CLM	_____	☐ Document Legibility
☐ IIFW	_____	☐ Fees
☐ SRFW	_____	☐ Other
☐ DRW	_____	
☐ OATH	_____	
☐ 312	_____	
☒ SPEC	2/20/02	

[RUSH] MESSAGE: ① PAGE 7, LINE 29, CHARACTER AFTER (-1)³ IS ILLEGIBLE IN THE SPECIFICATION.

② PAGE 63 IS MISSING LINES 1-7 IN THE SPECIFICATION.

THANK YOU
Rem

[XRUSH] RESPONSE: _____

See Misc. Comm.

DONE

INITIALS: JM

NOTE: This form will be included as part of the official USPTO record, with the Response document coded as XRUSH.
REV 10/04

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Atty's Docket: ABRAHAM=3

In re Application of:)   Confirmation No. 4727
Ziv ABRAHAM et al   )
Application No.: 10/078,111   )   Application Division
Filing Date: February 20, 2002   )   Washington, D.C.
For: GENERATION OF MASK-CONSTRAINED...)   Date: February 3, 2006

RESPONSE TO NOTICE TO FILE CORRECTED APPLICATION PAPERS

U.S. Patent and Trademark Office
Customer Service Window
Randolph Building, Mail Stop Missing Parts
401 Dulany Street
Alexandria, VA 22314

The present communication is in response to the "NOTICE TO FILE CORRECTED APPLICATION PAPERS" dated January 31, 2006.

[XX] Attached hereto as required by the Notice is/are:
    [ ] ___ substitute drawing sheets (Figures ____) in compliance with 37 C.F.R. §1.84.
    [XX] Pages 7 and 63.

[ ] Also attached hereto is/are:
    [ ] Preliminary Amendment
    [ ] An Information Disclosure Statement with Form SB/08A and ___ references.
    [ ] Other documents: _____.

[ ] Applicant claims small entity status. See 37 C.F.R. §1.27.

[ ] It is hereby petitioned for an extension of time in accordance with 37 C.F.R. §1.136(a). The appropriate fee required by 37 C.F.R. §1.17 is calculated as shown below:

Small Entity Response Filed Within		Other Than Small Entity Response Filed Within	
[ ] First	- $ 60.00	[ ] First	- $ 120.00
[ ] Second	- $ 225.00	[ ] Second	- $ 450.00
[ ] Third	- $ 510.00	[ ] Third	- $1020.00
[ ] Fourth	- $ 795.00	[ ] Fourth	- $1590.00
[ ] Fifth	- $1080.00	[ ] Fourth	- $2160.00
month after time period set		month after time period set	

[XX] Conditional Petition for Extension of Time:
If any extension of time for a response is required, applicant requests that this be considered a petition therefor.

[ ] Credit Card Payment Form, PTO-2038, authorizing payment the amount of _____ is enclosed to cover the above fees.

[XX] The Commissioner is hereby authorized and requested to charge any additional fees which may be required in connection with this application or credit any overpayment to Deposit Account No. 02-4035. This authorization and request is not limited to payment of all fees associated with this communication, including any Extension of Time fee, not covered by check or specific authorization, but is also intended to include all fees for the presentation of extra claims under 37 CFR §1.16 and all patent processing fees under 37 §CFR 1.17 throughout the prosecution of the case. This blanket authorization does not include patent issue fees under 37 CFR §1.18.

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UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Serial Number
10/078111

Date Mailed
1/31/06

NOTICE TO FILE CORRECTED APPLICATION PAPERS

Notice of Allowance Mailed

This application has been accorded an Allowance Date and is being prepared for issuance. The application, however, is incomplete for the reasons below.

Applicant is given 30 days from the mail date of this Notice within which to correct the informalities indicated below. A failure to reply will result in the application being ABANDONED. This period for reply is NOT extendable under 37 CFR 1.136 (a) or (b).

- ◆ Page 7 Line 29 character after (-1)? Is illegible in the specification
- ◆ Page 63 is missing lines 1-7 in the specification. Fax legible information to number below or e-mail.

- o For status updates visit http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR System, contact the Electronic Business Center (EBC) toll free at 866-217-9197.

APPLICANT MUST SUPPLY MISSING INFORMATION WITHIN 30 DAYS OF THE MAIL DATE OF THIS NOTICE.

A copy of this notice MUST be returned with the reply. Please address response to Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

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fraction bits to the right of the binary point. Even in implementations where the significand's leading bit (to the left of the binary point) is

5   implied and is not explicitly present, the significand still includes that leading bit. Note that a significand differs from a "mantissa" in that a mantissa includes only the fraction

10   field to the right of the binary point, whereas a significand also includes the bit to the left of the binary point. The concept of mantissa may be defined in such a way to

15   include all of the bits of the significand, including the leftmost bit and not only the fraction bits. In this case and for a binary normalized significand, the mantissa would simply

20   be the significand shifted one place to the right, or divided by a scaling factor of 2.

The Set of Machine Numbers

       For purposes of illustration, a non-limiting example

25   of a binary floating-point number system is the IEEE standard 754 previously referenced. We assume that three integer constants are given, E_{min}, E_{max}, p. The machine numbers are those which can be represented in the form $v = (-1)^s \times 2^E \times b_0 b_1 b_2 \ldots b_{p-1}$, where $s \in \{0, 1\}$ represents

30   the sign of v. E, representing the exponent of v, is an

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Exceptional Case

5   As previously mentioned, there is an exceptional case where the exponent of $\underline{a} + \underline{b}$ is smaller by 1 than that of $\underline{c}$.

If the tails triplet chosen from Table 6 does not have any superscript it means that even if the generated
10   S_c is 1.00...0, there is no post-normalization. In this case, the result is correct and acceptable.

If, however, the tails triplet has a superscript and the fixed-point generator produces $S_c = 1.00...0$ then it means that some thing may be wrong with the result and it
15   is not certain that the produced S_a, S_b, and S_c satisfy $S_c = round(2^{-Qa}S_a + 2^{-Qb}S_b)$, as it should. This is discussed here in further detail.

If the superscript is [0] then the result is definitely wrong and cannot be corrected. In such a case, the result
20   should be discarded and the significands construction should be repeated.

If the superscript is [1], it means that the result is in fact correct, and should be accepted.

If the superscript is [2], it means that the c_3 part of
25   the tails should be constructed with care: Note that there are only two tails triplets with a superscript [2], in the list: They are (0, 1, 1) and (1, 0, 1) in the *round to nearest/even* mode, with $C_p = 1$. Since the resulting S_c was 1.00...0 it means that the $p + 1$ first bits of the
30   exact sum were 011...1 and that c_3 should be concatenated to the right of this, in order to produce the complete

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In re Appln. No. 10/078,111
Confirmation No. 4727
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CERTIFICATE OF FACSIMILE TRANSMISSION

I hereby certify that this paper is being facsimile

transmitted to the Patent and Trademark Office on the date

shown below.

Maureen Adams
Name

Maureen Adams
Signature

February 3, 2006
Date